

## Longwave Imaging for Astronomical Applications, Phase I

Completed Technology Project (2009 - 2009)



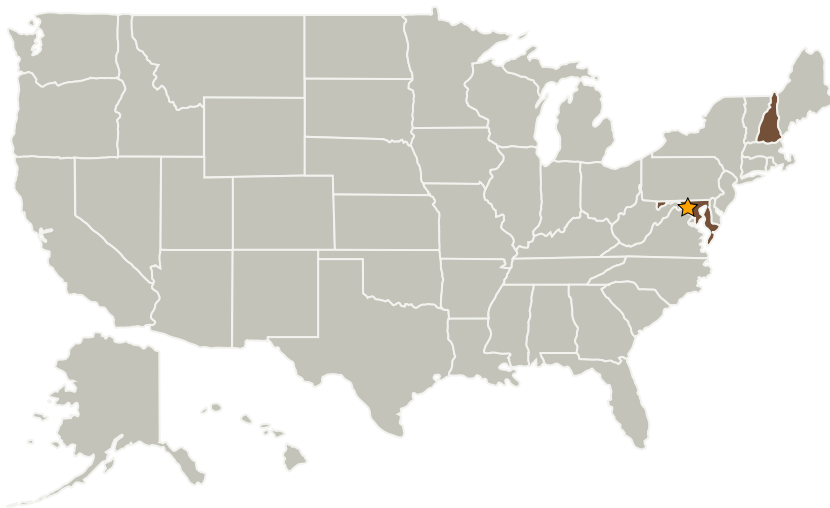
## Project Introduction

We propose to develop a compact portable longwave camera for astronomical applications. In Phase 1, we will develop and deliver the focal plane array (FPA) - a crucial camera component. In Phase 2, we will integrate the FPA with electronics and optics into a compact package and deliver the resulting camera to NASA for field testing.

## Anticipated Benefits

1) Gas sensing (e.g. for the petrochemical industry). 2) Security and surveillance. 3) Thermography. 4) Medical imaging.

## Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Goddard Space Flight Center (GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
QmagiQ, LLC	Supporting Organization	Industry	Nashua, New Hampshire



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## Primary U.S. Work Locations

Maryland

New Hampshire

## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Center / Facility:

Goddard Space Flight Center (GSFC)

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

## Project Management

### Program Director:

Jason L Kessler

### Program Manager:

Carlos Torrez

### Project Manager:

Murzban D Jhabvala

### Principal Investigator:

Mani Sundaram

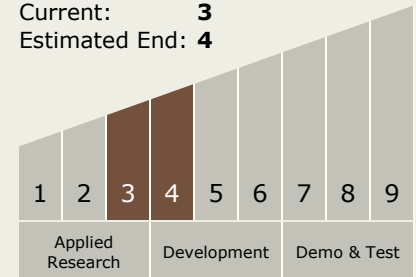
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## Technology Maturity (TRL)

Start: **3**  
Current: **3**  
Estimated End: **4**



## Technology Areas

### Primary:

- TX08 Sensors and Instruments
  - └ TX08.1 Remote Sensing Instruments/Sensors
    - └ TX08.1.3 Optical Components